

Trauma Assessment



A AIRWAY

Patent airway
Patent airway with assistance

Intubated airway
Burns to face
Inhalation injury
Maxillofacial trauma

Assessments in Red, Transport to Nearest Trauma Center

B BREATHING

No distress
Partial assisted

Assisted
Decrease in SaO₂ with oxygen
Sub-Q-Emphysema
Unequal breath sound

RESPIRATORY RATE

Adult

< 10 > 29

Pediatric

< 12 > 40

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C CIRCULATION

No evidence of shock
Tachycardia with peripheral pulses

Bradycardia
Decrease in systolic blood pressure
Mottled and cool extremities
No peripheral pulse

SYSTOLIC BLOOD PRESSURE

Adult

< 90

Pediatric

0–1 years of age < 70

1–2 years of age < 80

> 2 years of age < 90

Assessments in Red, Transport to Nearest Trauma Center




D DISABILITY

Alert interactive
Reactive to voice stimuli

Motor deficit
Reactive to painful stimuli
Unequal pupils
Unresponsive or inappropriate to pain
Open fractures

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GLASGOW COMA SCORE

Activity	Score	Infant Response	Adult Response
 Eye Opening	4	Spontaneous	Spontaneous
	3	To speech or sound	To speech
	2	To painful stimuli	To pain
	1	None	None
 Verbal	5	Appropriate words, sounds, and social smile	Oriented to person, place, month, year
	4	Cries but consolable	Confused
	3	Persistently irritable	Inappropriate words
	2	Restless / agitated	Incomprehensible
	1	None	None
 Motor	6	Spontaneous movement	Obeys commands
	5	Localizes pain	Localizes pain
	4	Withdraws to pain	Withdraws to pain
	3	Abnormal extremity flexion	Abnormal extremity flexion
	2	Abnormal extremity extension	Abnormal extremity extension
	1	None	None

Scores 12 or Less, Transport to Nearest Trauma Center

REVISED TRAUMA SCORE

Systolic Blood Pressure	Code
> 89	4
76–89	3
50–75	2
1–49	1
0	0

Respiratory Rate	
10–29	4
> 29	3
6–9	2
1–5	1
0	0

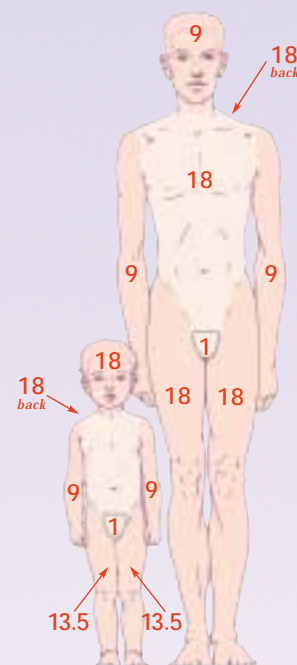
Glasgow Coma Score	
13–15	4
9–12	3
6–8	2
4–5	1
3	0

RTS 10 or Less, Transport to Nearest Trauma Center

NORMAL PEDIATRIC VITAL SIGNS

Age	Weight (kg)	Heart Rate	Respiration	Systolic Blood Pressure
Newborn	3	100–160	30–60	50–70
1–6 weeks	4	100–160	30–60	70–95
6 months	7	90–120	25–40	80–100
1 year	10	90–120	20–30	80–100
3 years	15	80–120	20–30	80–100
6 years	20	70–100	18–25	80–100
10 years	30	60–90	16–22	90–120
12 years	40	60–90	15–20	90–135

RULE OF NINES



BURNS

Second degree > 10% total body surface area (TBSA) – all ages

Third degree any percent – all ages

Burns that involve: face, hands, feet, genitalia, perineum, major joints, and long bone fractures

Inhalation injury

Electrical burns

Chemical burns

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MECHANISM OF INJURY

Consider Transport to Nearest Trauma Center

Any of the following:

Death of occupant in same vehicle
Ejection from vehicle/rollover
Extrication time > 20 minutes
High speed crash
Pedestrian thrown or run over
Pedestrian/vehicle impact > 5 mph
Significant intrusion of passenger compartment
Motorcycle, ATV, bicycle crash > 20 mph
Falls > 20 feet

RISK FACTORS

Consider Transport to Nearest Trauma Center

Age < 5, > 55 years
Hostile environment heat or cold
Medical illness: COPD, CHF, IDDM
Immunosuppression
Pregnancy
Suspected alcohol/drug/intoxication
Patients with bleeding disorder or on anticoagulants
EMT “high index of suspicion”

